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RAW SEQUENCE LISTING
PATENT APPLICATION US/09/214,478

1633

DATE: 05/09/2000
TIME: 06:44:11

Input Set: I214478.RAW

This Raw Listing contains the General Information
Section and up to first 5 pages.

1 <110> APPLICANT: Philip E.Branton et al.
2 <120> TITLE OF INVENTION: Adenovirus E4 Proteins For Inducing Cell
3 Death
4 <130> FILE REFERENCE: 50013/002003
5 <140> CURRENT APPLICATION NUMBER: US/09/214,478
6 <141> CURRENT FILING DATE: 1999-06-07
7 <150> EARLIER APPLICATION NUMBER: 60/021,273
8 <151> EARLIER FILING DATE: 1996-07-05
9 <150> EARLIER APPLICATION NUMBER: 60/028,740
10 <151> EARLIER FILING DATE: 1996-10-22
11 <150> EARLIER APPLICATION NUMBER: IB97/01041
12 <151> EARLIER FILING DATE: 1997-07-03
13 <160> NUMBER OF SEQ ID NOS: 4
14 <170> SOFTWARE: FastSEQ for Windows Version 4.0
15 <210> SEQ ID NO 1
16 <211> LENGTH: 885
17 <212> TYPE: DNA
18 <213> ORGANISM: Adenovirus
19 <400> SEQUENCE: 1

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21 cggcgccactc cgtacagtag ggatcgctcta cctccttttg agacagaaac ccgcgctacc 120
22 atactggagg atcatccgct gctgccgaa tgtaacactt tgacaatgca caacgtgagt 180
23 tacgtgcgag gtcttccttg cagtgtggga ttacgctga ttcaggaatg ggttggtccc 240
24 tgggatatgg ttctaacgag ggaggagctt gtaatcctga ggaagtgtat gcacgtgtgc 300
25 ctgtgtgtg ccaacattga tatcatgacg agcatgatga tccatggta cgagtcctgg 360
26 gctctccact gtcattgttc cagtcgccgt tccctgcagt gtatagccgg cgggcaggtt 420
27 ttggccagct ggttaggat ggtggtgat ggcgccatgt ttaatcagag gtttatatgg 480
28 taccgggagg tggtaatta caacatgcca aaagaggtaa tgtttatgtc cagcgtgttt 540
29 atgaggggtc gccacttaat ctacctgcgc ttgtggtatg atggccacgt gggttctgtg 600
30 gtccccgcca tgagctttgg atacagcgcc ttgcaactgt ggattttgaa caatattgtg 660
31 gtgctgtgct gcagttactg tgctgattta agtgagatca ggggtgcgctg ctgtgcccgg 720
32 aggacaaggc gccttatgct gcgggcgggtg cgaatcatcg ctgaggagac cactgccatg 780
33 ttgtattcct gcaggacgga gcggcgccgg cagcagttta ttgcgcgcgt gctgcagcac 840
34 caccgcccta tctgatgca cgattatgac tctaccccca tgtag 885

35 <210> SEQ ID NO 2
36 <211> LENGTH: 294
37 <212> TYPE: PRT
38 <213> ORGANISM: Adenovirus
39 <400> SEQUENCE: 2
40 Met Thr Thr Ser Gly Val Pro Phe Gly Met Thr Leu Arg Pro Thr Arg
41 1 5 10 15
42 Ser Arg Leu Ser Arg Arg Thr Pro Tyr Ser Arg Asp Arg Leu Pro Pro
43 20 25 30
44 Phe Glu Thr Glu Thr Arg Ala Thr Ile Leu Glu Asp His Pro Leu Leu

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45          35          40          45
46      Pro Glu Cys Asn Thr Leu Thr Met His Asn Val Ser Tyr Val Arg Gly
47          50          55          60
48      Leu Pro Cys Ser Val Gly Phe Thr Leu Ile Gln Glu Trp Val Val Pro
49      65          70          75          80
50      Trp Asp Met Val Leu Thr Arg Glu Glu Leu Val Ile Leu Arg Lys Cys
51          85          90          95
52      Met His Val Cys Leu Cys Cys Ala Asn Ile Asp Ile Met Thr Ser Met
53          100          105          110
54      Met Ile His Gly Tyr Glu Ser Trp Ala Leu His Cys His Cys Ser Ser
55          115          120          125
56      Pro Gly Ser Leu Gln Cys Ile Ala Gly Gly Gln Val Leu Ala Ser Trp
57      130          135          140
58      Phe Arg Met Val Val Asp Gly Ala Met Phe Asn Gln Arg Phe Ile Trp
59      145          150          155          160
60      Tyr Arg Glu Val Val Asn Tyr Asn Met Pro Lys Glu Val Met Phe Met
61          165          170          175
62      Ser Ser Val Phe Met Arg Gly Arg His Leu Ile Tyr Leu Arg Leu Trp
63          180          185          190
64      Tyr Asp Gly His Val Gly Ser Val Val Pro Ala Met Ser Phe Gly Tyr
65          195          200          205
66      Ser Ala Leu His Cys Gly Ile Leu Asn Asn Ile Val Val Leu Cys Cys
67      210          215          220
68      Ser Tyr Cys Ala Asp Leu Ser Glu Ile Arg Val Arg Cys Cys Ala Arg
69      225          230          235          240
70      Arg Thr Arg Arg Leu Met Leu Arg Ala Val Arg Ile Ile Ala Glu Glu
71          245          250          255
72      Thr Thr Ala Met Leu Tyr Ser Cys Arg Thr Glu Arg Arg Arg Gln Gln
73          260          265          270
74      Phe Ile Arg Ala Leu Leu Gln His His Arg Pro Ile Leu Met His Asp
75          275          280          285
76      Tyr Asp Ser Thr Pro Met
77      290
78      <210> SEQ ID NO 3
79      <211> LENGTH: 345
80      <212> TYPE: DNA
81      <213> ORGANISM: Adenovirus
82      <400> SEQUENCE: 3
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84      tggctgggtg tggcttattc tgcggtgggt gatgttatca gggcagcggc gcatgaagga      120
85      gttacatag aacccgaagc cagggggcgc ctggatgctt tgagagagtg gatatactac      180
86      aactactaca cagagcgatc taagcggcga gaccggagac gcagatctgt ttgtcacgcc      240
87      cgcacctggt ttgtcttcag gaaatatgac tacgtccggc gttccatttg gcatgacact      300
88      acgaccaaca cgatctcggt tgtctcggcg cactccgtac agtag      345
89      <210> SEQ ID NO 4
90      <211> LENGTH: 114
91      <212> TYPE: PRT
92      <213> ORGANISM: Adenovirus
93      <400> SEQUENCE: 4
94      Met Val Leu Pro Ala Leu Pro Ala Pro Pro Val Cys Asp Ser Gln Asn

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95	1	5	10	15
96	Glu Cys Val Gly Trp Leu Gly Val Ala Tyr Ser Ala Val Val Asp Val			
97	20	25	30	
98	Ile Arg Ala Ala Ala His Glu Gly Val Tyr Ile Glu Pro Glu Ala Arg			
99	35	40	45	
100	Gly Arg Leu Asp Ala Leu Arg Glu Trp Ile Tyr Tyr Asn Tyr Tyr Thr			
101	50	55	60	
102	Glu Arg Ser Lys Arg Arg Asp Arg Arg Arg Ser Val Cys His Ala			
103	65	70	75	80
104	Arg Thr Trp Phe Cys Phe Arg Lys Tyr Asp Tyr Val Arg Arg Ser Ile			
105	85	90	95	
106	Trp His Asp Thr Thr Thr Asn Thr Ile Ser Val Val Ser Ala His Ser			
107	100	105	110	
108	Val Gln			

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VERIFICATION SUMMARY
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Line ? Error/Warning

Original Text
